

85EHD Tough Bird®

1 1/4" 32 mm Full or Part Circle,
Brass Impact Sprinklers

- Heavy duty brass construction
- Stainless steel wear buttons, springs and fulcrum pin
- Locking stainless steel trip collars

Features

- Chemically resistant washers
- Full or Part Circle operation

Benefits

- Internal straightening vane increases distance of throw
- Stainless steel buttons protect trip mechanism from wear
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1 1/4" Male NPT, Brass
- Trajectory Angle: 23°
- Operating Range: 25-100 psi 1.7-6.9 bar
- Flow Rate: 17.1-127.7 gpm 3.88-28.99 m³/h
- Radius: 61-116 ft. 18.6-35.4 meters
- One 3/4" Female NPT Nozzle Port
- One 1/8" Female NPT Spreader Nozzle Port



Straight Bore Nozzle (SBN-5) with Plug (SBN-1) Performance*

psi @ Nozzle	NOZZLE SIZE (Stream Height: 14 ft.)									
	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	5/8"	11/16"
	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm
25	61 17.10	62 20.30	64 23.40	66 26.70	66 30.30	66 33.80	66 37.10	66 42.30	66 51.50	66 61.90
30	64 18.80	65 22.30	68 25.70	69 29.30	72 33.20	73 37.10	73 40.80	73 46.40	73 56.50	73 68.10
35	67 20.30	68 24.10	72 27.80	74 31.70	77 35.90	79 40.10	79 44.10	79 50.20	79 61.10	79 73.80
40	69 21.80	71 25.80	75 29.70	77 33.90	80 38.50	83 42.90	83 47.20	86 53.70	86 65.40	86 79.20
45	71 23.10	73 27.40	77 31.60	79 36.00	82 40.80	85 45.60	88 50.10	90 57.10	92 69.50	92 84.20
50	73 24.40	75 28.90	79 33.30	81 38.00	84 43.10	87 48.10	90 52.90	94 60.20	95 73.30	97 88.90
55	75 25.50	77 30.30	81 34.90	83 39.70	86 45.30	89 50.30	92 55.60	96 63.20	99 77.30	100 93.50
60	77 25.80	79 30.80	83 35.90	86 41.60	88 47.40	91 53.00	94 58.80	97 65.50	101 80.10	104 97.80
65	79 26.90	81 32.00	84 37.40	87 43.30	90 49.90	93 55.30	96 61.20	99 69.40	102 84.40	106 102.00
70	81 28.10	83 33.30	86 38.90	89 45.10	91 51.40	94 57.50	98 63.50	101 72.20	104 87.80	108 106.00
75	82 29.20	84 34.50	87 40.30	90 46.80	93 53.30	96 59.60	99 65.80	102 74.90	105 91.00	109 109.90
80	83 30.40	86 35.70	89 41.80	92 48.40	94 55.10	97 61.60	101 68.10	104 77.50	107 94.10	110 113.70
85	85 31.50	87 37.00	90 43.20	93 50.00	96 56.90	99 63.50	102 70.30	105 80.00	108 97.10	112 117.30
90	86 32.70	89 38.30	92 44.60	95 51.50	97 58.50	100 65.30	104 72.40	106 82.20	110 99.90	113 120.90
95	87 33.90	90 39.50	93 46.00	96 53.00	98 60.00	101 67.10	105 74.40	108 84.30	111 102.60	115 124.30
100	88 34.00	91 40.70	94 47.40	97 54.50	99 61.50	102 68.90	106 76.40	109 87.20	112 105.20	116 127.70

Straight Bore Nozzle (SBN-5) and Spreader (LAN-1-20) Performance (SBN-1)*

psi @ Nozzle	NOZZLE SIZE (Stream Height: 14 ft.)				
	11/32" x 7/32-20"	3/8" x 7/32-20"	13/32" x 7/32-20"	7/16" x 7/32-20"	15/32" x 7/32-20"
	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm	Rad. gpm
25	61 23.30	62 26.50	64 29.60	66 32.90	66 36.40
30	64 25.60	65 29.10	68 32.40	69 36.10	72 40.00
35	67 27.70	68 31.40	72 35.10	74 39.00	77 43.30
40	69 29.60	71 33.60	75 37.60	77 41.80	80 46.30
45	71 31.50	73 35.70	77 39.90	79 44.40	82 49.20
50	73 33.20	75 37.70	79 42.10	81 46.80	84 51.90
55	75 34.90	77 39.70	81 44.30	83 49.10	86 54.70
60	77 36.50	79 41.40	83 46.60	86 51.50	88 57.20
65	79 38.00	81 43.20	84 48.60	87 53.80	90 59.80
70	81 40.10	83 44.90	86 50.40	89 55.90	91 62.10
75	82 41.00	84 46.70	87 52.40	90 57.90	93 64.30
80	83 42.60	86 48.30	89 54.30	92 60.00	94 66.70
85	85 43.80	87 49.80	90 56.00	93 62.00	96 68.80
90	86 45.70	89 51.40	92 57.90	95 63.90	97 70.70
95	87 46.60	90 53.00	93 59.60	96 65.80	98 72.80
100	88 47.90	91 54.50	94 61.20	97 67.50	99 74.80

* Nozzles must be purchased separately.
See Chart below.

Part Numbers and Ordering Information

Sprinkler Only	
Sprinkler without Nozzle without Plug	A23600

Nozzle Only			XX = Nozzle Size										
U.S. Standard			7/32"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	5/8"	11/16"
Brass Straight Bore Nozzle	SBN-5	103043-XX	—	22	24	26	28	30	32	34	36	40	44
Brass Low Pressure Nozzle	LPN-5	108149-XX	—	—	24	—	28	30	32	—	—	40	—
Brass 20° Low Angle Spreader Nozzle	LAN-1-20	100226-XX	14	—	—	—	—	—	—	—	—	—	—
1/8" Male NPT Plug for Spreader port		100255	Bold nozzle size numbers denote the most common nozzle choices										

Bold nozzle size numbers denote the most common nozzle choices.